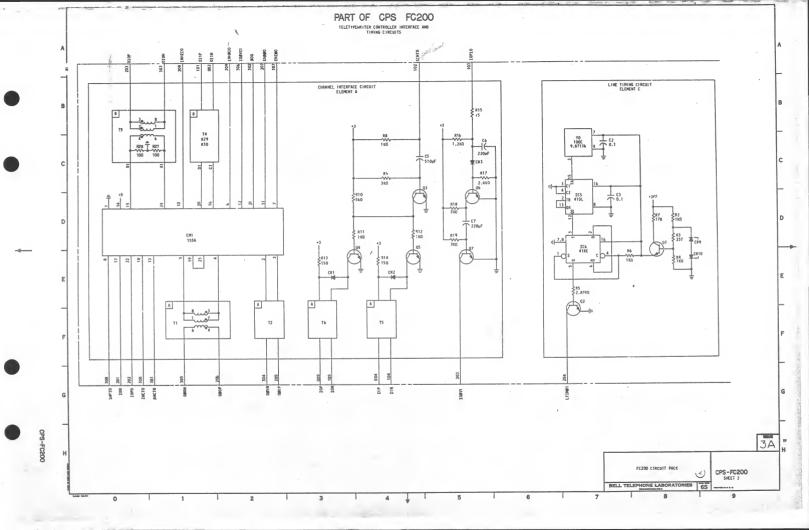
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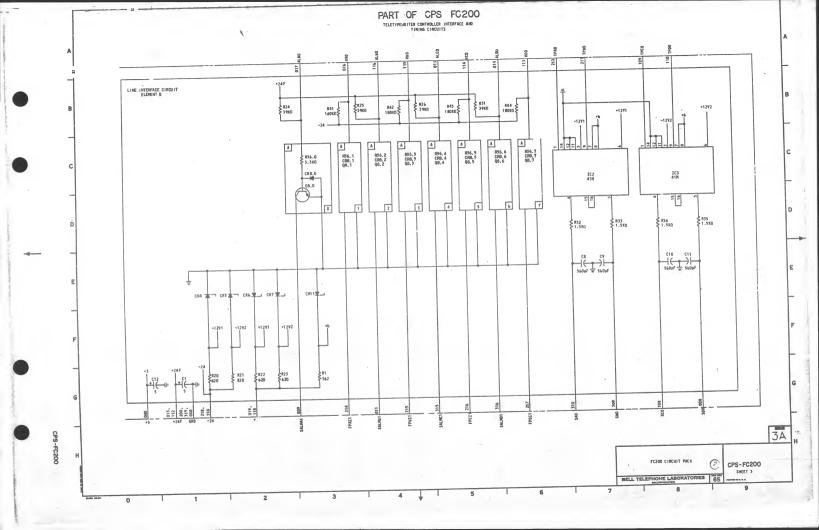
INTERFACE AND TIMING

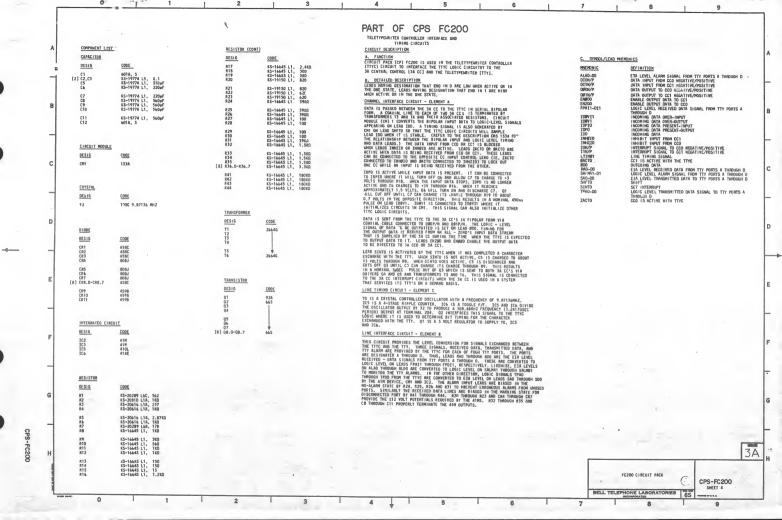
BELL TELEPHONE LABORATORIES

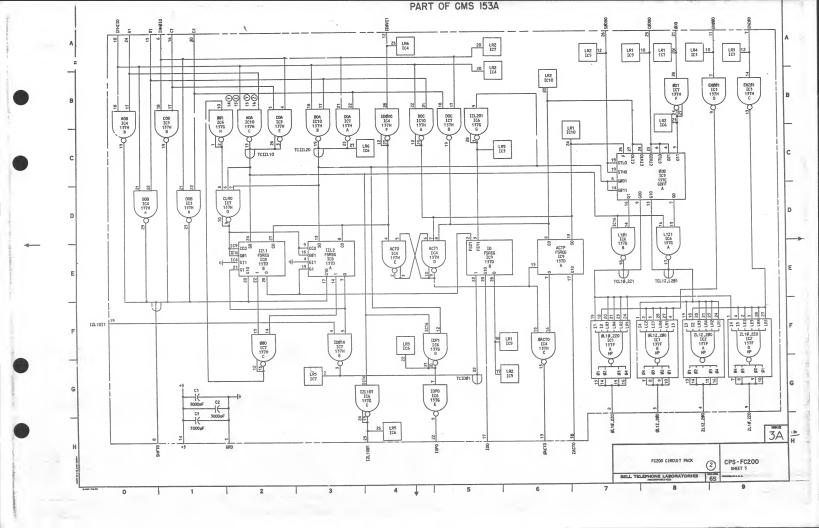
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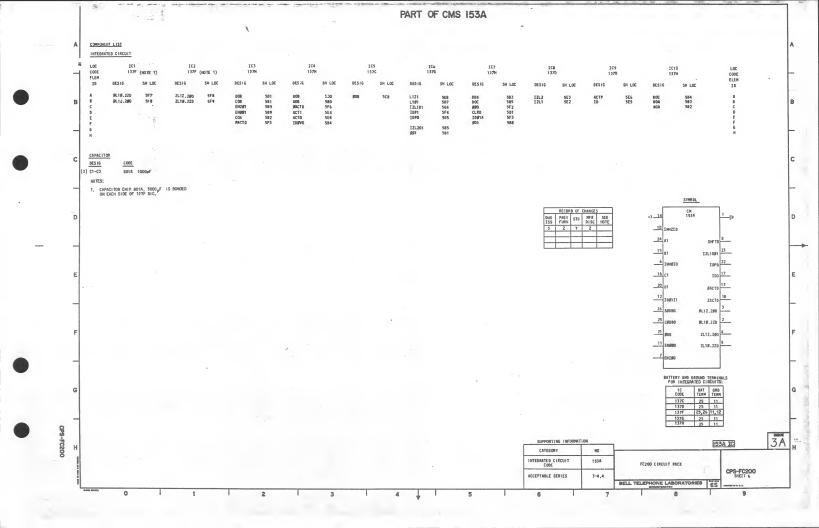
65











PART OF CMS 153A CIRCUIT DESCRIPTION TIMING DIAGRAM A. FUNCTION LEADS JACTO AND SECTO INDICATE MATCH, IF AVY, CC IS ACTIVILY COMMINICATING WITH THE COMMINICATING WITH THE COMPOSITION OF COMMINICATING CCC IS IS SEVENTIA SECTO AND ACTT, IS SET DE CATES BOC OR DOC TO INDICATE HAVE ONCE OF THE CCC IS IS SEVENTIA INSURT DATA. ILLIPATOR ACTOR OF THE COMPOSITION OF T CM 153A IS USED IN THE CONVERSION BETWEEN BIPOLAR SIGNALS ON THE 3A CC I/# DATA LINES AND LOGIC-LEVEL SIGNALS REQUIRED BY PERIPHERAL UNIT CONTROLLER CIRCUITS (SUCH AS THE TTY DATA BIT DATA BIT (ONE) (ONE) (ZERO) (ZERD) B. DETAILED DESCRIPTION RIPOLAR INPUT BOTH THE ZACTO AND MACTO ARE HIGH MEN NEITHER CC IS ACTIVE. LEADS HAVING DESIGNATIONS THAT END IN 1 ARE HIGH HHEN ACTIVE, OR IN THE ONE STATE. LEADS HAVING DESIGNATIONS THAT END IN 0 ARE LOW WHEN ACTIVE, OR IN THE ONE STATE. FLIP-FLOPS ARE SET TO THE ONE STATE AND CLEARED TO THE ZERO STATE. INHZIO AND INHEIO BLOCK INPUT DATA FROM CCO AND CC1 MHEN THEY LEAD IDPO WILL BE ACTIVE WHEN EITHER LOBE OF THE INPUT DATA BIT IS PRESENT. IT CAM BE USED BY AM EXTERNAL CIRCUIT TO INDICATE WHEN INCOMING DATA IS PRESENT. THE EXTERNAL CIRCUIT MUST HAVE B1 (OR D1) FIG. 1 BIPOLAR TO LOGIC BIPOLAR TO LOGIC LEVEL CONVERSION THE CONTROLLED AS CAN AMERICAN.

THE CONTROLLED RECEIVED BITA LINE IS TRANSFORMER-COUPLED TO CH 1754 OH LEAGS AT MAD BY FROM CCO, MAD CT AND DI FROM CCI.

THE DATA IS DOFFED BY GHES AND AND DOA AT TICKLID, AND BY GALTS.

BUY, AND DON AT TICKLID. THE MELATIONOMY FOR THE CONTROLLED AND TICKLID.

THE CONTROLLED BY GHES AND AND DOA AT TICKLID, AND BY GALTS.

BUY, AND DON AT TICKLID. THE MELATION CONTROLLED BY THE GORGE OF THE STORMER BY THE GORGE OF THE STORMER BY THE GORGE OF THE STORMER WE CONTROLLED BY THE MELATIVE CONTROLLED BY THE CONTROLLED BY A MESSATIVE LOSS CONTROLLED BY THE MEMBER STORMER BY THE BY THE STORMER BY THE STO LEVEL CONVERSION USING CM 153A SUFFICIENT FILTERING TO HOLD OVER ANY GAP BETWEEN LOBES. A1 (OR C1) INPUT IDEN'I IS USED TO INITIALIZE THE IZL1 AND IZL2 TO THE OO STATE, AND TO CLEAR THE ACT FLIP-FLOP. THIS SIGNAL MAY BE ACTIVATED BY AN EXTERNAL CITCUIT AT THE END OF A DATA COMMUNICATION. 5:# TO LOGIC LEVEL TO BIPOLAR CONVERSION THE 3A CC FOLLOWS THE BATA PORTION OF A COMPANICATION TO A PERIPPERAL UNIT HIT HAS ALL-ZERS BY STREAM. THIS BIT STREAM FROM THE BIT STREAM SHOWN THE BENDARD THE SENT TO THE SA CC. THE 3A CC. THE THIN THE SA CC. THE THE SACRET SA CC. THE THE SACRET SACR 100 THE IMPUT DATA LEAD (100) IS SET AT THE LEADING EDGE OF THE FIRST LOBE. THE THINKS SIGNAL IS THE TRAILING EDGE OF SETS WHICH DECOME AT THE TRAILING EDGE OF THE SETOND LIBE. THIS, IT CONTRIBLES IS SIGNALED TO SAPPLE THE IMPORTANCE LIBE. THE CONTRIBLE OF SAPPLE THE IMPORTANCE LIBER ASS SEED TAKEN TO WHINING THE MEMBERS OF GAITS THAT CONTRIBLE IN DAY ON SHIP LEADS IN GOOGET THAT VARIATIONS IN GAITE LEADS THE COSTROY THE CREATIONIST PERSON THE SATE OF THE CREATIONIST PERSON THE SAME CONTRIBLE TO SET OF THE CREATIONIST PERSON THE SAME CONTRIBLE TO SET OF THE CREATIONIST PERSON THE SAME CONTRIBLE THE SET OF THE SAME CREATIONIST PERSON THE SAME THUS, FOR EACH OUTGOING BIT PERIOD, LEAD A1 (OR C1) IS ACTIVE FOLLOWED BY B1 (OR O1) ACTIVE, INPUTS ENZIRO AND EMBOO ARE ACTIVATED TO START THE OUTPUT AND DIRECT IT TO CCO OF CC1. GATES _118_22 AND _212_280 ANE TRANSFORMER_COUPLED TO THE OUTGOING DATA . INE TO COD. GATES \$4.10, 220 AND \$4.12_280 ANE TRANSFORMER_COUPLED TO THE OUTGOING DATA . LINE TO CCT. THESE GATES ANE HELD HIGH HHEN THERE IS NO INCOMING DATA OR WHEN THE ENABLE LEAD BIPULAR INPUT SERIAL THE DATA ARE A 150-MS BIT INTERVAL WITH 37.5-65 LOSES. (ENZEO, ENEED) IS NOT ACTIVE. (ALL ZERDS) THE SHFTO LEAD IS CONTROLLED BY GATES ADB, BOB, COB, AND DOB, THE SETO LEAD IS CONTROLLED BY CATES AND, DOB, ONE, ONE ONE, NAD ONE, PLAND FLIP-LEAD STATE AND EACH STATE AND EACH FLIP-LEAD AND HE THE CLEAR OF THE GATES AND EACH FLIP-LEAD AND HE THE CLEAR OF THE SO THAT STATE AND EACH FLIP-LEAD AND HE THE CLEAR OF THE HEAT OF THE ATTENT AND HE THAT ALL ATTIVATE ONE OF THE CATES. THE CLEAR OF THE FLIP-LEAD AND HE THIS FROM COO OF CCT1) AND PLL SETO LOS. THE HIST TOSE HILL ALLOW HILL SETO HELD AND HE THE THE STATE AND HE THE STATE OF THE FLIP-LEAD STATE AND HE THE STATE OF THE FLIP-LEAD STATE AND HE THAT STATE THE RELATIONSHIP BETWEEN THE ALL-ZEROS INPUT DATA, THE LOGIC LEVEL TCIZL10 A SOC (DOC) -4----LOGIC LEVEL TO BIPOLAR CONVERSION USING CM 153A gm A GATE IN FACH PAIR IS CONNECTED TO THE OPPOSSITE BUD OF THE PRIMARY OF A TRANSFORMER, EACH PAIR OF "ATRESTS IS PROVIDED BY IN A THANSFORMER, THANS, THE OTHER IS IN HAICH THE CLUE THE THAN STORE OF THAN STORE OF THE STORE OF T THE STATE OF THE DATA FLIP-FLOP (ID). ZL16, 220 HARM THE SECOND LOSE OF THE INCOMING DATA BIT IS ACTIVE THE MYE OF THE GATE ACTIVATED BY THE FIRST LOSE HIS ACTIVE. AND IN HILL THIS LOSE HILL ALSO SET THE FIRST LOSE LAS ASE COSE AND DOOD, THIS LOSE HILL ALSO SET THE FIRST FLORE TALZED, THAT WAS NOT SET BY THE FIRST LOSE. AMEN THE SECOND FLIP-FLOP IS SET, IT HINBIESTS THE PATH BY HALLOT THE FIRST FLIP-FLOP ELD SHYTO. (ØL 16, 220) 71 17 200 (BL1Z, 280) WHEN THE FIRST LOBE IS OVER ONLY THE GATE ACTIVATED BY THE SECOND LOBE HOLDS SHFTO LOW, SYMBOL/LEAD MITH BOTH FLIP-FLOPS SET, THE INPUT TO LEAD FROM 801 IS NIGH.
THE OTHER IMPUTS TO LEAD, AND TELLIZO ME CONTROLLED IN THE CHARM IMPUTS TO LEAD FLORING, AND TELLIZO ME CONTROLLED IN CHARM IMPUTS TO THE SECOND LOSE EXPIRES, THE CATE INCLINES SHETD IS DISABLED AND SHETD MILL OF HIGH, CLEO WILL BOLDING SHETD IS DISABLED AND SHETD MILL OF HIGH, CLEO WILL BOLDING THE AND TELE CONNECTION TO SHETO SET OLD LIAM ALSO SIGNALS CANDET COCKET ON THIS SHETO SAN DEFENDED. BIPOLAR OUTPUT C. MMEMONICS DEFINITION MNEHON1C SET OR CLEARED TO DETERMINE WHICH INPUT PORT IS ACTIVE SET WHE'S EITHER IMPUT PORT IS ACTIVE INPUTS FROM CCG. ACTP ACTO, 1 CLEAR COB FC ENABLE OUTPUT TO CC1 LEAD IDD IS CONTROLLED BY THE 10 FLIP-FLDP. 10 RETAINS NE LAST HOOMING DATA STATE WITH IT IS UPDATED BY THE FIRST LORE OF THE FLORE OF THE THE FLORE OF THE FLORE **ENZIO** INCOLUNG DATA IO IDDVI1 INCOMING DATA OVER, INPUT INCOMING ZERO LOBE THO - SET BY FIRST LOBE WHEN INPUT IS ZERO INCOMING ZERO LOBE THO - SET BY SECOND LOBE WHEN IMPUT IS ZERO INCOMING DATA IDO MACTO CC1 IS ACTIVE OUTGOING DATA BIT #08 #00 #L1#,220 #L1Z,2#0 FIRST LOBE FOR A ONE, SECOND LOBE FOR A ZERO TO CC1 FIRST LOBE FOR A ZERO, SECOND LOBE FOR A ONE TO CC1 DUTGO ING DATA SHIFT SET OOB FF SHFTO SHOBO ZACTO IF THE INCOMING DATA BIT IS A ONE, TITIZED MILL SE ACTIVE FIRST, IZZAD MILL SE HIGH MHILE IZZAD IS CASSED, MAY BE ID FILTP-FIRST, IZZAD MILL SE HIGH MHILE IZZAD IS CASSED, MAY BE ID FILTP-FIRST, IZZAD MILCH IS THE ONE STATE, MAN FILST SECOND LOSE IS ACTIVE FIRM MICHONINO DOE TOZIZAD IS ACTIVE, AND MILL RIVEY IZZAD HIGH SET ZIZZAD, MANCHEN PERSON IZ IDSMA FRONC MANCHING ID. CCO IS ACTIVE FIRST LOBE FOR A ONE, SECOND LOBE FOR A ZERO TO CCO FIRST LOBE FOR A ZERO, SECOND LOBE FOR A ONE TO CCO 2A CPS-FC200 EC200 CLECULT PACE SHEET 7 BELL TELEPHONE LABORATORIES 65 9 A 6 7 2 3 A 5

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